

## ABSTRACT OF THE DISCLOSURE

An optical fiber composite that can easily have a desired mean transmission property as a whole even after a length of optical fiber is cut off from one end or both ends, a cable comprising the composites, and methods for producing the composite and cable. An optical fiber composite 10 is produced by splicing a first optical fiber 11, a second optical fiber 12, and a third optical fiber 13 in this order. The first optical fiber 11 and the third optical fiber 13 each have a first chromatic dispersion,  $D_1$ , at the wavelength of a signal-carrying lightwave. The second optical fiber 12 has a second chromatic dispersion,  $D_2$ , at the wavelength of the signal-carrying lightwave. The third optical fiber has a length,  $L_3$ , shorter than the length,  $L_1$ , of the first optical fiber. It is desirable that the ratio  $L_3/L_1$  be at most 0.1.

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